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DOCUMENT-IDENTIFIER: [REDACTED]  
TITLE: AUTHENTICATION SYSTEM USING IC CARD AND IC CARD  
PUBN-DATE: December 9, 2004

## INVENTOR-INFORMATION:

NAME	COUNTRY
INAMITSU, TETSUJI	N/A
HASHIMOTO, KAZUNORI	N/A
FUKUSHIMA, SHINICHIRO	N/A
TAKAMI, MINORU	N/A
AIKAWA, SHIN	N/A

## ASSIGNEE-INFORMATION:

NAME	COUNTRY
HITACHI LTD	N/A

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## ABSTRACT:

PROBLEM TO BE SOLVED: To authenticate also a true owner of an IC card when authenticating a specific system by the IC card.

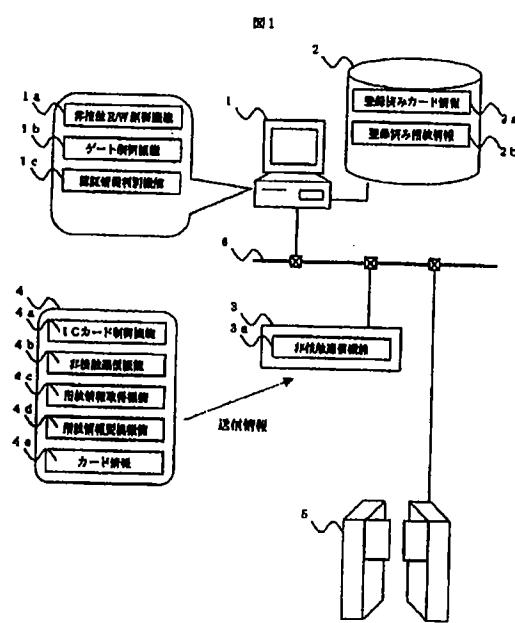
SOLUTION: The card information of IC [REDACTED] each of non-contact type and the [REDACTED] information of a true owner of the IC card has been registered in a database 2 as registered card information 2a and registered fingerprint information 2b. When a user of the non-contact IC card 4 puts the IC card 4 on a non-contact reader/writer 3 and touches a fingerprint input means of the IC card 4 with a finger, the fingerprint information is read out by the IC card 4 and the fingerprint information and the card information 4e are read out together by a server 1 through the non-contact reader/writer 3. The server 1 confirms whether the card information 4e has been registered as the registered information 2a or not to authenticate the IC card 4, and when the IC card 4 is authenticated, confirms whether the fingerprint information has been registered as the registered information 2b or not to authenticate the user.

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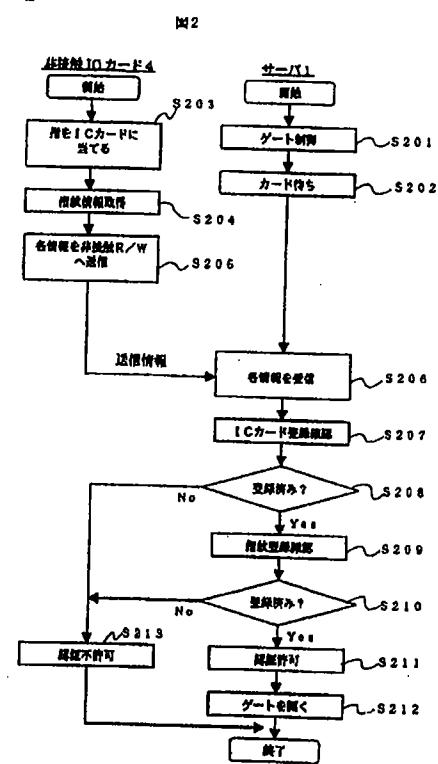
- 5 ゲート  
 6 ネットワーク  
 7 POS 端末  
 7 a 電子マネー処理機能  
 8 ICカード読み書き装置  
 8 a 指紋情報取得機能  
 8 b 指紋情報変換機能  
 8 c ICカード通信機能  
 8 d 非接触通信機能  
 9 接触 IC カード  
 9 a ICカード制御機能  
 9 b カード情報  
 9 c 接触通信機能

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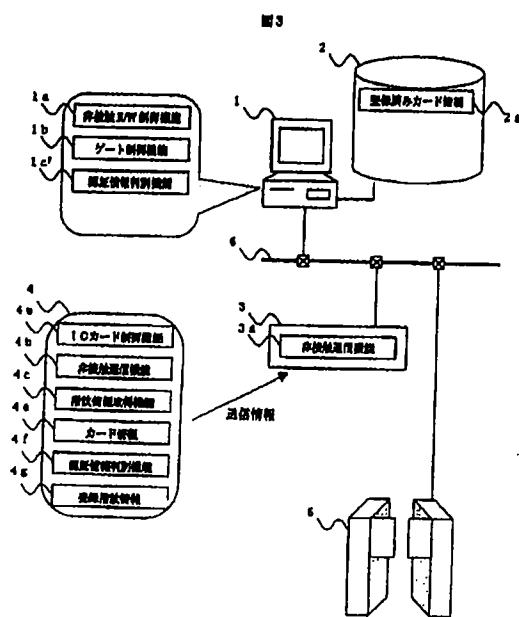
【図 1】



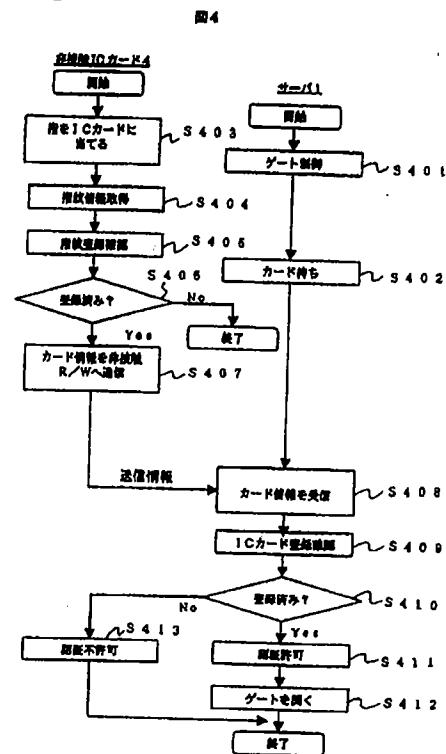
【図 2】



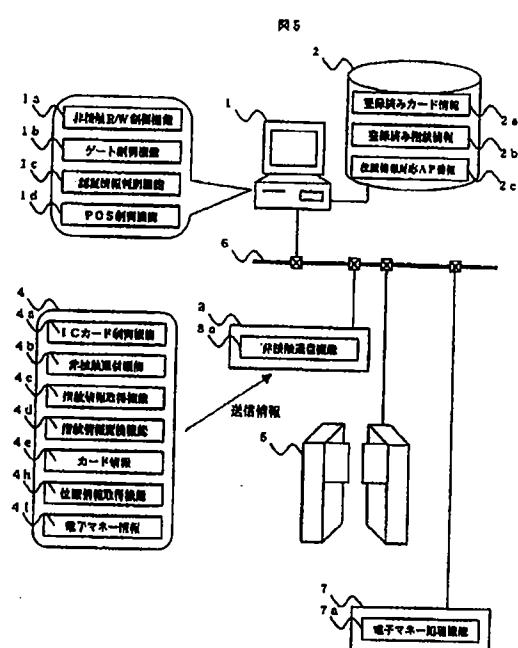
【圖 3】



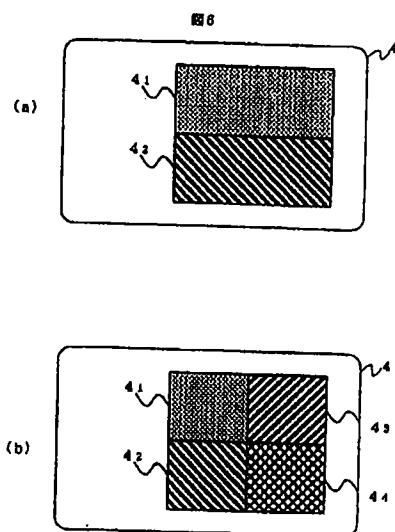
[図4]



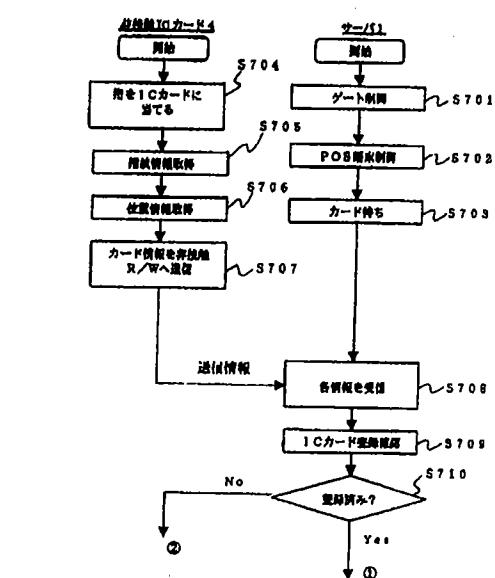
〔圖5〕



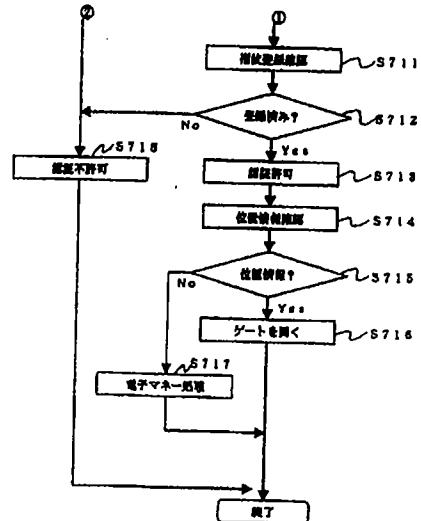
〔図6〕



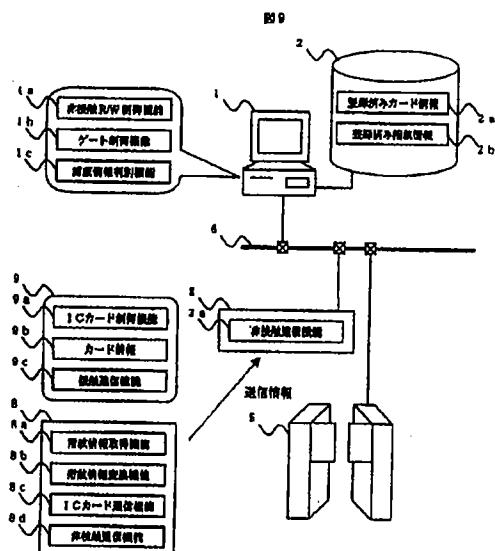
〔圖7〕



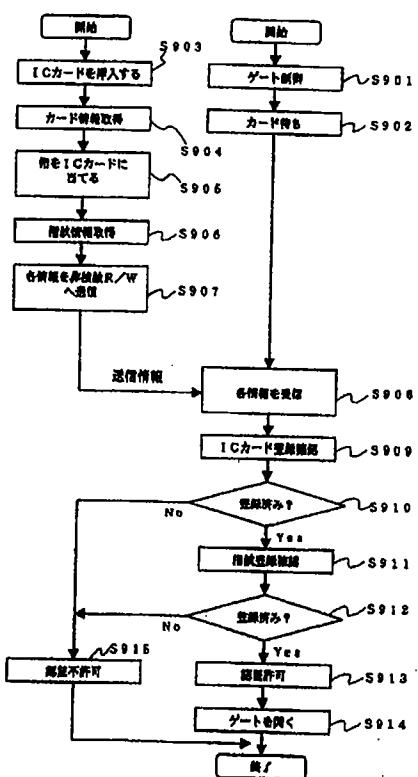
〔図8〕



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[図 10]



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(72)発明者 福島 真一郎

神奈川県横浜市戸塚区吉田町292番地 株式会社日立製作所デジタルメディア開発本部内

(72)発明者 高見 穎

神奈川県横浜市戸塚区吉田町292番地 株式会社日立製作所デジタルメディア開発本部内

(72)発明者 相川 慎

神奈川県横浜市戸塚区吉田町292番地 株式会社日立製作所デジタルメディア開発本部内

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